Complete Summary

GUIDELINE TITLE

Vaginal birth after cesarean.

BIBLIOGRAPHIC SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Vaginal birth after cesarean. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2002 Oct. 23 p.

COMPLETE SUMMARY CONTENT

SCOPE

METHODOLOGY - including Rating Scheme and Cost Analysis
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SCOPE

DISEASE/CONDITION(S)

Pregnancy, previous cesarean section

GUIDELINE CATEGORY

Evaluation Management

CLINICAL SPECIALTY

Obstetrics and Gynecology

INTENDED USERS

Advanced Practice Nurses Allied Health Personnel Health Care Providers Health Plans Hospitals Nurses Physician Assistants Physicians

GUI DELI NE OBJECTI VE(S)

- To decrease the number of repeat cesarean sections which are not medically indicated
- To increase the percentage of women who are eligible for vaginal birth after cesarean (VBAC) who attempt VBAC
- To increase the percentage of VBAC eligible women who receive education describing risks and benefits of VBAC

TARGET POPULATION

All pregnant women with a previous cesarean section

INTERVENTIONS AND PRACTICES CONSIDERED

- 1. Patient history of previous cesarean section at first office visit including obtaining previous operative records for type of uterine incision
- 2. Perform thorough medical history and physical exam
- 3. Consultation with other specialists as indicated
- 4. Assessment of possible contraindications to vaginal birth after cesarean (VBAC)
- 5. Provide patient education and counseling in risks and benefits associated with VBAC
- 6. Labor management for VBAC, including:
 - availability of cesarean section team within a short time
 - intermittent auscultation or continuous electronic fetal heart rate monitoring
 - intravenous access and availability of blood products as indicated
 - augmentation or induction of labor with medication such as:
 - oxytocin
 - prostaglandins (misoprostol)
 - availability of specialty teams for obstetric emergencies
- 7. VBAC or repeat cesarean section

MAJOR OUTCOMES CONSIDERED

- Rate of vaginal births among women who have undergone a previous cesarean section
- Rate of attempted vaginal births after cesarean (VBAC) among women eligible for VBAC
- Rate of repeat cesarean section among women who attempted VBAC
- Rate of complications/adverse effects associated with VBAC, including rate of uterine rupture and perinatal and maternal morbidity and mortality

METHODOLOGY

METHODS USED TO COLLECT/SELECT EVIDENCE

Searches of Electronic Databases

DESCRIPTION OF METHODS USED TO COLLECT/SELECT THE EVIDENCE

Not stated

NUMBER OF SOURCE DOCUMENTS

Not stated

METHODS USED TO ASSESS THE QUALITY AND STRENGTH OF THE EVIDENCE

Not stated

RATING SCHEME FOR THE STRENGTH OF THE EVIDENCE

Not applicable

METHODS USED TO ANALYZE THE EVIDENCE

Review of Published Meta-Analyses Systematic Review

DESCRIPTION OF THE METHODS USED TO ANALYZE THE EVIDENCE

Not stated

METHODS USED TO FORMULATE THE RECOMMENDATIONS

Not stated

RATING SCHEME FOR THE STRENGTH OF THE RECOMMENDATIONS

Not applicable

COST ANALYSIS

A formal cost analysis was not performed and published cost analyses were not reviewed.

METHOD OF GUIDELINE VALIDATION

Clinical Validation-Pilot Testing Internal Peer Review

DESCRIPTION OF METHOD OF GUIDELINE VALIDATION

Institute Partners: System-Wide Review

The guideline annotation, discussion and measurement specification documents undergo thorough review. Written comments are solicited from clinical, measurement, and management experts from within the member groups during an eight-week review period.

Each of the Institute's participating member groups determines its own process for distributing the guideline and obtaining feedback. Clinicians are asked to suggest modifications based on their understanding of the clinical literature coupled with their clinical expertise. Representatives from all departments involved in implementation and measurement review the guideline to determine its operational impact. Measurement specifications for selected measures are developed by the Institute for Clinical Systems Improvement (ICSI) in collaboration with participating member groups following implementation of the guideline. The specifications suggest approaches to operationalizing the measure.

Guideline Work Group

Following the completion of the review period, the guideline work group meets 1 to 2 times to review the input received. The original guideline is revised as necessary and a written response is prepared to address each of the responses received from member groups. Two members of the OB/GYN Steering Committee carefully review the input, the work group responses, and the revised draft of the guideline. They report to the entire committee their assessment of four questions: (1) Is there consensus among all ICSI member groups and hospitals on the content of the guideline document? (2) Has the drafting work group answered all criticisms reasonably from the member groups? (3) Within the knowledge of the appointed reviewer, is the evidence cited in the document current and not out-of-date? (4) Is the document sufficiently similar to the prior edition that a more thorough review (critical review) is not needed by the member group? The committee then either approves the guideline for release as submitted or negotiates changes with the work group representative present at the meeting.

Pilot Test

Member groups may introduce the guideline at pilot sites, providing training to the clinical staff and incorporating it into the organization's scheduling, computer and other practice systems. Evaluation and assessment occurs throughout the pilot test phase, which usually lasts for three-six months. At the end of the pilot test phase, ICSI staff and the leader of the work group conduct an interview with the member groups participating in the pilot test phase to review their experience and gather comments, suggestions, and implementation tools.

The guideline work group meets to review the pilot sites' experiences and makes the necessary revisions to the guideline, the OB/GYN Steering Committee reviews the revised guideline and approves it for release.

RECOMMENDATIONS

MAJOR RECOMMENDATIONS

Please note: This guideline has been updated. The National Guideline Clearinghouse is working to update this summary.

An algorithm is provided for <u>Vaginal Birth After Cesarean (VBAC)</u> with 12 components, accompanied by detailed annotations. Clinical highlights and selected annotations (numbered to correspond with the algorithm) follow.

Class of evidence (A-D, M, R, X) definitions are provided at the end of the "Major Recommendations" field.

Clinical Highlights

- 1. Determine possible contraindications of patient for VBAC.
 - Previous classical incision or another deeply penetrating incision into the myometrium of the upper uterus
 - Any other obstetric or fetal contraindication to vaginal delivery (Annotation 1)
- 2. Educate patient on risks and benefits associated with VBAC; document education and patient's response. (Annotation 4)
- 3. Select delivery facility equipped to provide special considerations of labor management such as:
 - Team capable of performing cesarean section should be present in hospital
 - Provision of intermittent auscultation or continuous electronic fetal heart monitoring
 - Team capable of responding to obstetric emergencies. (Annotations 7 and 9)

Vaginal Birth After Cesarean Algorithm Annotations

- 1. First Office Visit
 - A. Obtain previous operative reports stating type of uterine incision
 - B. Perform thorough history and physical
 - C. Obtain necessary consultations from other specialists
- 2. Contraindications to Vaginal Birth After Cesarean (VBAC)?
 - A. Contraindications to VBAC:
 - 1. Previous classic cesarean section

Evidence supporting this recommendation is of classes: C, D, R, M

2. Some uterine surgery, i.e., hysterotomy, deep myomectomy, cornual resection, and metroplasty

Evidence supporting this recommendation is of classes: R, M, B

3. Previous uterine rupture or dehiscence

Evidence supporting this recommendation is of class: D

- 4. Some maternal/fetal medical conditions, such as open neural tube defect and complete placenta previa
- 5. Unknown uterine scar if there is a high likelihood of classical scar

Evidence supporting this recommendation is of class: D

6. Rare psychological or social conditions

Evidence supporting this recommendation is of class: R

- B. Conditions that are not contraindications but may increase risk:
 - 1. Two or more previous cesarean sections

Evidence supporting this recommendation is of classes: B, X

2. Previous failure to progress in labor and/or cephalopelvic disproportion

Evidence supporting this recommendation is of classes: C, D

- 3. Interpregnancy interval of less than 9 months
- 4. Prepregnancy weight in excess of 300 pounds
- 5. Indications for previous cesarean section(s)
- 6. Induction
- 7. Closure of the previous uterine incision by single layer technique
- C. Conditions that have no documented increased risk:
 - 1. Post cesarean section infection

Evidence supporting this recommendation is of class: C

2. Known overdistended uterus, i.e., twins, macrosomia, hydramnios

Evidence supporting this recommendation is of classes: C, D

4. Discuss Risks/Benefits with Patient and Document

Provide patient education, including a discussion of the risks and benefits associated with VBAC. Encourage VBAC in appropriate patients. (See Annotation #2 "Contraindications to VBAC?", above.)

Document this discussion.

6. Routine Prenatal Care Until Labor/Patient Instructed to Report to Hospital in Active Labor

See the related National Guideline Clearinghouse (NGC) summary of the Institute for Clinical Systems Improvement (ICSI) guideline Routine Prenatal Care.

Attempt at external version is not a contraindication for VBAC.

Evidence supporting this recommendation is of class: D

- 7. Special Considerations of Labor Management
 - A. Cesarean section team availability within a short time.

Evidence supporting this recommendation is of class: R

- B. Intermittent auscultation or continuous electronic fetal heart rate monitoring should be done.
- C. Intravenous (IV) access and availability of blood products must be done at a provider's discretion.
- D. Augmentation or induction of labor with oxytocin increases the risk of uterine rupture.

Evidence supporting this recommendation is of classes: D, M

E. The use of prostaglandins for induction increases the risk of uterine rupture with a greater extent than oxytocin.

Evidence supporting this recommendation is of classes: B, C, D

F. Uterine scars do not require manual exploration post-partum.

Evidence supporting this recommendation is of class: D

G. Epidural anesthesia is not contraindicated.

Evidence supporting this recommendation is of classes: C, D

H. Amnioinfusion is not contraindicated.

Evidence supporting this recommendation is of class: D

I. Intrauterine pressure catheters are not necessary unless there are other obstetric indications.

Evidence supporting this recommendation is of class: C

9. Complicated Labor Management

Complicated labor results from:

1. Failure to progress (See the related NGC summary of the ICSI guideline <u>Prevention, Diagnosis and Treatment of Failure to Progress in Obstetrical Labor</u>).

Evidence supporting this recommendation is of classes: C, D

- 2. Fetal distress (See the related guideline <u>Intrapartum Fetal Heart Rate Management</u>).
- 3. Maternal complication
- 4. Uterine rupture

The same considerations for intervention in labor apply to VBAC as for other attempted deliveries.

Definitions:

Classes of Research Reports:

A. Primary Reports of New Data Collection:

Class A:

• Randomized, controlled trial

Class B:

Cohort study

Class C:

- Non-randomized trial with concurrent or historical controls
- Case-control study
- Study of sensitivity and specificity of a diagnostic test
- Population-based descriptive study

Class D:

- Cross-sectional study
- Case series
- Case report
- B. Reports that Synthesize or Reflect upon Collections of Primary Reports:

Class M:

- Meta-analysis
- Systematic review
- Decision analysis
- Cost-effectiveness analysis

Class R:

- Consensus statement
- Consensus report
- Narrative review

Class X:

Medical opinion

CLINICAL ALGORITHM(S)

A detailed and annotated clinical algorithm is provided for <u>Vaginal Birth After</u> Cesarean (VBAC).

EVIDENCE SUPPORTING THE RECOMMENDATIONS

TYPE OF EVIDENCE SUPPORTING THE RECOMMENDATIONS

The guideline contains an annotated bibliography and discussion of the evidence supporting each recommendation. The type of supporting evidence is classified for selected recommendations (see "Major Recommendations").

The recommendations in this guideline are supported by large controlled studies. The guideline work group would have preferred to refer to double-blind studies, but it is not feasible to blind a woman to whether she is having labor or a cesarean section, and it is unsafe to blind providers to whether a woman has had a previous cesarean section or not.

BENEFITS/HARMS OF IMPLEMENTING THE GUIDELINE RECOMMENDATIONS

POTENTIAL BENEFITS

Appropriate medical management of vaginal birth after cesarean (VBAC) as demonstrated by:

- increased rate of successful VBAC
- decreased rate of complications/adverse effects associated with VBAC
- decreased rate of repeat cesarean sections that are not medically indicated
- increased rate of attempted VBAC

POTENTIAL HARMS

Risks of vaginal birth after cesarean (VBAC) include hysterectomy, uterine rupture, operative injury, and perinatal and maternal mortality.

However, the overall rate of maternal complications has not been found to differ significantly between women who choose a trial of labor and women who elect to have a cesarean section (C-section).

The following data from McMahon et al. (Comparison of a Trial of Labor with an Elective Cesarean Section, N Engl J Med 335:689-95, 1996) should be discussed when counseling the patient:

- The safest route for the mother was successful vaginal delivery; the risk of major complications for the baby was about equal for trial of labor or elective C-section.
- The risk of major complications (hysterectomy, uterine rupture, operative injury) was 1.6% after trial of labor and 0.8% with scheduled repeat cesarean section. While the rate of major complications with trial of labor is slightly higher, the risk in both cases is still quite low.

The guideline work group and the Institute for Clinical Systems Improvement (ICSI) Obstetrics/Gynecology Steering Committee concluded that vaginal birth after cesarean is still the best option, due to the high probability of successful vaginal delivery and the low rate of complications after trial of labor.

The scarred uterus has an increased potential to rupture. A previous low segment transverse uterine incision carries the lowest risk of complications when attempting a vaginal birth after cesarean--2.4% asymptomatic dehiscence and 0.17% symptomatic uterine rupture. Classical or T-incision is associated with a risk of 4.2% to 8.8% uterine rupture (probably dependent on the degree to which the incision extends into the active segment).

Symptomatic rupture of the gravid uterus carries a 45.8% perinatal mortality and a 4.2% maternal mortality and occurs in 4.3% to 8.8% of women with a high vertical uterine scar. Rupture through a low segment transverse scar is much more likely to go undetected or produce maternal hypovolemia or gradual fetal distress. Complete rupture with expulsion of fetus or placenta is a true obstetric emergency and can lead to maternal or hypovolemic complication, even death, as well as fetal hypoxia and death.

Potential Medication Side Effects

- Augmentation or induction of labor with oxytocin increases the risk of uterine rupture.
- Some studies suggest that the use of misoprostol and other prostaglandins may increase the risk of uterine rupture.

Subgroups Most Likely to be Harmed:

Type of uterine scar: The type of uterine scar associated with a previous uterine rupture or dehiscence makes a difference in the frequency of rupture and severity of symptoms. A rate of repeat separation of 6.4% is reported if previous uterine incision is in the lower segment and a 32.1% rate is seen if the scar is in the upper segment, with complication rates assumed to be similar to those of the primary uterine rupture.

Conditions that Are Not Contraindications but May Increase Risk

• Two or more previous cesarean sections

- Previous failure to progress in labor and/or cephalopelvic disproportion
- Interpregnancy interval of less than 9 months
- Prepregnancy weight in excess of 300 pounds
- Indications for previous cesarean section(s)
- Induction
- Closure of the previous uterine incision by single layer technique

CONTRAINDICATIONS

CONTRAINDICATIONS

Contraindications to Vaginal Birth After Cesarean (VBAC)

- Previous classic cesarean section
- Some uterine surgery, i.e., hysterotomy, deep myomectomy, cornual resection, and metroplasty: incisions penetrating the muscular layer of the uterus may weaken this area and increase the risk of uterine rupture
- Previous uterine rupture or dehiscence
- Some maternal/fetal medical conditions, such as open neural tube defect and complete placenta previa
- Unknown uterine scar if there is a high likelihood of classical scar
- Rare psychological or social conditions

QUALIFYING STATEMENTS

OUALIFYING STATEMENTS

- This clinical guideline should not be construed as medical advice or medical opinion related to any specific facts or circumstances. Patients are urged to consult a health care professional regarding their own situation and any specific medical questions they may have.
- This clinical guideline is designed to assist clinicians by providing an analytical framework for the evaluation and treatment of patients, and is not intended either to replace a clinician's judgment or to establish a protocol for all patients with a particular condition. A guideline will rarely establish the only approach to a problem.
- The recommendations in this guideline are supported by large controlled studies. The guideline work group would prefer to refer to double-blind studies, but it is not feasible to blind a woman to whether she is having labor or a cesarean section, and it is unsafe to blind care providers to whether a woman has had a previous cesarean section or not. Given these limitations, the work group feels confident of the literature support for the recommendations within this guideline. Furthermore, these recommendations are consistent with the most recent (at the time of guideline publication) Practice Patterns for vaginal birth after cesarean published by the American College of Obstetricians and Gynecologists.

IMPLEMENTATION OF THE GUIDELINE

Once a guideline is approved for release, a member group can choose to concentrate on the implementation of that guideline. When four or more groups choose the same guideline to implement and they wish to collaborate with others, they may form an action group.

In the action group, each medical group sets specific goals they plan to achieve in improving patient care based on the particular guideline(s). Each medical group shares its experiences and supporting measurement results within the action group. This sharing facilitates a collaborative learning environment. Action group learnings are also documented and shared with interested medical groups within the collaborative.

Currently, action groups may focus on one guideline or a set of guidelines such as hypertension, lipid treatment and tobacco cessation.

The following detailed measurement strategies are presented to help close the gap between clinical practice and the guideline recommendations.

Priority Aims and Suggested Measures for Health Care Systems

1. Decrease the number of repeat cesarean sections which are not medically indicated.

Possible measures of accomplishing this aim:

- a. Percentage of births delivered vaginally among patients who had a previous cesarean section.
- b. Percentage of births delivered vaginally among patients who had a previous cesarean section among those attempting vaginal birth after cesarean (VBAC).
- 2. Increase the percentage of women who are eligible for VBAC who attempt VBAC.

Possible measures of accomplishing this aim:

- a. Percentage of VBAC eligible women who attempted VBAC.
- b. Percentage of women with VBAC eligible cesarean sections who are counseled that VBAC is an option.
- 3. Increase the percentage of VBAC eligible women who receive education describing risks and benefits of VBAC.

Possible measure of accomplishing this aim:

a. Percentage of VBAC eligible women who receive education describing risks and benefits of VBAC.

Possible Success Measure #1a

Percentage of births delivering vaginally among patients who had a previous cesarean section.

Population Definition

All women giving birth who have had a previous cesarean section.

Data of Interest

of vaginal births among the women in the denominator # of births by women who had a previous cesarean section

Numerator/Denominator Definitions

Numerator:

All vaginal births among the women in the denominator (this includes operative vaginal deliveries).

Denominator:

All births by women who had a previous cesarean section.

Method/Source of Data Collection

Any one of several possible data collection methods may be used by the medical group to capture data for this particular population.

- 1. Data may be obtained retrospectively by a chart audit (using a minimum sample of 20 charts per month).
- 2. Data may be obtained through discharge abstract coding or other data base from the hospital.
- 3. The hospital may send the medical group a copy of the labor and delivery summary sheet for deliveries.
- 4. A copy of the nursing checklist form is sent to the medical group for data collection.

Data are reviewed to determine if the delivery fits the inclusion criteria for the measure, i.e., a prior cesarean section. If no, the birth is not reviewed. If yes, the birth data are reviewed to assess whether vaginal birth or cesarean section occurred, or if a VBAC was attempted.

Time Frame Pertaining to Data Collection

These data may be collected monthly.

Notes

This is the overall VBAC rate. Locally for managed care and for some national managed care organizations this rate is approximately 50%.

Possible Success Measure #1b

Percentage of births delivered vaginally among patients who had a previous cesarean section and attempted VBAC.

Population Definition

All women giving birth who have had a previous cesarean section and attempted VBAC.

Data of Interest

of vaginal births among the women in the denominator

of births of women who had a previous cesarean section that attempted VBAC

Numerator/Denominator Definitions

Numerator:

All vaginal births among the women in the denominator (this includes operative vaginal deliveries).

Denominator:

All births by women who had a previous cesarean section and attempted VBAC.

Method/Source of Data Collection

Any one of several possible data collection methods may be used by the medical group to capture data for this particular population.

- 1. Data may be obtained retrospectively by a chart audit (using a minimum sample of 20 charts per month).
- 2. Data may be obtained through discharge abstract coding or other data base from the hospital.
- 3. The hospital may send the medical group a copy of the labor and delivery summary sheet for deliveries.
- 4. A copy of the nursing checklist form is sent to the medical group for data collection.

Data are reviewed to determine if the delivery fits the inclusion criteria for the measure, i.e., a prior cesarean section. If no, the birth is not reviewed. If yes, the birth data are reviewed to assess whether vaginal birth or cesarean section occurred, or if a VBAC was attempted.

Time Frame Pertaining to Data Collection

These data may be collected monthly.

Notes

This is the VBAC success rate. (If appropriate candidates are selected this rate will be high). This rate is expected to be substantially higher than the overall VBAC rate since those women who have had previous c-sections, but do not attempt a trial of labor, are not included.

Possible Success Measure #3a

Percentage of VBAC eligible women who receive education describing risks and benefits of VBAC.

Population Definition

Women at a prenatal visit who are VBAC eligible.

Data of Interest

of VBAC eligible women with documentation of education of the risks and benefits of VBAC

total number of VBAC eligible women whose medical records are reviewed

Numerator/Denominator Definitions

Numerator:

Documented is defined as any evidence in the medical record that a clinician provided education to the VBAC eligible woman of the risks and benefits of VBAC.

Denominator:

The number of women without any of the following contraindications to VBAC:

- Previous classic cesarean section
- Some uterine surgery, i.e., hysterotomy, deep myomectomy, cornual resection, and metroplasty
- Previous uterine rupture or dehiscence
- Some maternal/fetal medical conditions, such as open neural tube defect and complete placenta previa
- Unknown uterine scar if there is a high likelihood of classical scar
- Rare psychological or social conditions

Method/Source of Data Collection

Each month a minimum sample of prenatal visits is identified. This may be accomplished either by administrative search (refer to CPT and ICD-9 codes provided in the original guideline document), or by other case identification at the medical group.

Time Frame Pertaining to Data Collection

Suggested time frame for data collection is monthly.

Notes

It is recommended that VBAC is encouraged in appropriate patients. Patient education, including a discussion of the risks and benefits associated with VBAC, should be documented.

INSTITUTE OF MEDICINE (IOM) NATIONAL HEALTHCARE QUALITY REPORT CATEGORIES

IOM CARE NEED

Getting Better Staying Healthy

IOM DOMAIN

Effectiveness Patient-centeredness Safety

IDENTIFYING INFORMATION AND AVAILABILITY

BIBLIOGRAPHIC SOURCE(S)

Institute for Clinical Systems Improvement (ICSI). Vaginal birth after cesarean. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2002 Oct. 23 p.

ADAPTATION

Not applicable: The guideline was not adapted from another source.

DATE RELEASED

1994 Sep (revised 2002 Oct)

GUI DELI NE DEVELOPER(S)

Institute for Clinical Systems Improvement - Private Nonprofit Organization

GUI DELI NE DEVELOPER COMMENT

Organizations participating in the Institute for Clinical Systems Improvement (ICSI): Affiliated Community Medical Centers, Allina Medical Clinic, Altru Health System, Aspen Medical Group, CentraCare, Community-University Health Care Center, Dakota Clinic, ENT SpecialtyCare, Fairview Health Services, Family HealthServices Minnesota, Family Practice Medical Center, Gateway Family Health, Gillette Children's Specialty Healthcare, Grand Itasca Clinic and Hospital, HealthEast Care System, HealthPartners Central Minnesota Clinics, HealthPartners Medical Group and Clinics, Hutchinson Area Health Care, Hutchinson Medical Center, Lakeview Clinic, Mayo Clinic, Mercy Hospital and Health Care Center, MeritCare, Minnesota Gastroenterology, Montevideo Clinic, North Clinic, North Memorial Care System, North Suburban Family Physicians, Northwest Family Physicians, Olmsted Medical Center, Park Nicollet Health Services, Quello Clinic, Ridgeview Medical Center, River Falls Medical Clinic, RiverWay Clinics, Saint

Mary's/Duluth Clinic Health System, St. Paul Heart Clinic, Stillwater Medical Group, SuperiorHealth Medical Group, University of Minnesota Physicians.

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SOURCE(S) OF FUNDING

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GUI DELI NE COMMITTEE

OB/GYN Steering Committee

COMPOSITION OF GROUP THAT AUTHORED THE GUIDELINE

Work Group Members: John Jefferies, MD (Work Group Leader) (Mayo Clinic) (Obstetrics/Gynecology); Lori Bates, MD (Mayo Clinic) (Family Practice); Jane Flad, MD (Family HealthServices Minnesota) (Family Practice); Noel Wilkins, DO (HealthPartners Central Minnesota Clinics) (Family Practice); Dale Akkerman, MD (Park Nicollet Health Services) (Obstetrics/Gynecology); Brendon Cullinan, MD (Montevideo Clinic) (Obstetrics/Gynecology); Lisa Mattson, MD (Park Nicollet Health Services) (Obstetrics/Gynecology); Cherida McCall, CNM (HealthPartners Medical Group) (Nurse Midwife); Michele Stegeman, CNM (HealthPartners Medical Group) (Nurse Midwife); Dianne Eggen, RN, MPH (HealthPartners) (Health Education); Rick Carlson, MS (HealthPartners) (Measurement Advisor); Nancy Jaeckels (Institute for Clinical Systems Improvement) (Implementation Advisor); Barbara Mullikin, MS (Institute for Clinical Systems Improvement) (Facilitator)

FINANCIAL DISCLOSURES/CONFLICTS OF INTEREST

In the interest of full disclosure, ICSI has adopted a policy of revealing relationships work group members have with companies that sell products or services that are relevant to this guideline topic. It is not assumed that these financial interests will have an adverse impact on guideline content. They simply are noted here to fully inform users of the guideline.

All work group members: none declared.

GUIDELINE STATUS

Please note: This guideline has been updated. The National Guideline Clearinghouse is working to update this summary.

GUIDELINE AVAILABILITY

Electronic copies of the updated guideline: Available from the <u>Institute for Clinical Systems Improvement (ICSI) Web site</u>.

Print copies: Available from ICSI, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; telephone, (952) 814-7060; fax, (952) 858-9675; Web site: www.icsi.org; e-mail: icsi.info@icsi.org.

AVAILABILITY OF COMPANION DOCUMENTS.

The following is available:

 Vaginal birth after cesarean. In: ICSI pocket guidelines. April 2002 edition. Bloomington (MN): Institute for Clinical Systems Improvement, 2002 Mar. p.178-9.

Print copies: Available from ICSI, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; telephone, (952) 814-7060; fax, (952) 858-9675; Web site: www.icsi.org; e-mail: icsi.info@icsi.org.

PATIENT RESOURCES

The following is available:

• Annotation appendix A. Health education handout. In: Vaginal birth after cesarean. Bloomington (MN): Institute for Clinical Systems Improvement (ICSI); 2001 May. p. 6.

Electronic copies: The complete guideline, which contains Appendix A, is available from the <u>Institute for Clinical Systems Improvement (ICSI) Web site</u>.

Print copies: Available from ICSI, 8009 34th Avenue South, Suite 1200, Bloomington, MN 55425; telephone, (952) 814-7060; fax, (952) 858-9675; Web site: www.icsi.org; e-mail: icsi.info@icsi.org.

Please note: This patient information is intended to provide health professionals with information to share with their patients to help them better understand their health and their diagnosed disorders. By providing access to this patient information, it is not the intention of NGC to provide specific medical advice for particular patients. Rather we urge patients and their representatives to review this material and then to consult with a licensed health professional for evaluation of treatment options suitable for them as well as for diagnosis and answers to their personal medical questions. This patient information has been derived and prepared from a guideline for health care professionals included on NGC by the authors or publishers of that original guideline. The patient information is not reviewed by NGC to establish whether or not it accurately reflects the original guideline's content.

NGC STATUS

This summary was completed by ECRI on April 30, 1999. The information was verified by the guideline developer on April 30, 1999. This summary was updated by ECRI on October 13, 2000 and January 15, 2002. The summary was most recently updated on March 14, 2003. The updated information was verified by the guideline developer on May 15, 2003.

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